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## Amendments to the Claims

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims

- (original) A polymerizable system comprising: 1.
  - an organoborane; (a)
  - at least one polymerizable monomer; and (b)
  - a work-life extending agent according to the general formula: (c)

$$\begin{array}{c|c}
 & O \\
 & Z^{1} - R^{42} \\
 & Z^{2} - R^{43}
\end{array}$$

wherein R<sup>40</sup> is CH<sub>2</sub>= or alkenyl, Z<sup>1</sup> and Z<sup>2</sup> are independently O, N- R<sup>41</sup> or S, and R<sup>41</sup>. R<sup>42</sup> and R<sup>43</sup> are independently H, alkyl, aryl or cycloalkyl,

provided that when Z<sup>1</sup> and Z<sup>2</sup> are O, R<sup>42</sup> and R<sup>43</sup> are independently alkyl, aryl or cycloalkyl.

- (original) The polymerizable system of claim 1 wherein  $R^{42}$  and  $R^{43}$  are butyl, and  $Z^1$  and 2.  $Z^2$  are O.
- (original) The polymerizable system of claim 1 wherein  $R^{40}$  is vinyl. 3.
- (original) A polymerizable system comprising: 4.
  - an organoborane; (a)
  - at least one polymerizable monomer; and (b)
  - at least 2.5 weight percent of itaconic acid, itaconic acid derivatives or (c) combinations thereof.

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5. (original) The polymerizable system of claim 4, wherein the itaconic acid derivative comprises itaconic mono(butyl) ester.

- 6. (original) The polymerizable system of claim 4, wherein the itaconic acid derivative comprises itaconic di(butyl) ester.
- 7. (original) The polymerizable system of claim 1 further comprising a decomplexer.
- 8. (original) The polymerizable system of claim 7, wherein the organoborane is complexed with a complexing agent comprising a material selected from amines, amidines, hydroxides, alkoxides, and combinations thereof.
- 9. (original) The polymerizable system of claim 1, wherein the at least one polymerizable monomer comprises a material selected from (meth)acrylates, (meth)acrylamides, and mixtures thereof.
- 10. (original) The polymerizable system of claim 9, wherein the at least one polymerizable monomer comprises a material selected from (meth)acrylic esters of monohydric alcohols and (meth)acrylic acid esters of polyhydric alcohols.
- 11. (original) The polymerizable system of claim 1 further comprising a vinyl aromatic compound according to general formula:

$$R^{30} \left( \begin{array}{c} (R^{34})_y \\ X - Ar + (CR^{31} = CR^{32}R^{33})_x \\ \end{array} \right)_{T}$$

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## wherein:

n is an integer having a value of 1 or greater;

x is an integer having a value of 1 or greater;

y is an integer having a value of 0 or greater;

Ar is a substituted aryl group;

R<sup>31</sup>, R<sup>32</sup> and R<sup>33</sup> are independently selected from the group consisting of hydrogen, alkyl, aryl and halogen;

R<sup>34</sup> is an organic group wherein each R<sup>34</sup> is independently selected from the group consisting of alkyl, alkoxy, alkanoyl, alkanoyloxy, aryloxy, aroyl, aroyloxy, and halogen;

X is a divalent organic group or a covalent bond; and R<sup>30</sup> is an organic group; wherein a total molecular weight of each X plus R<sup>30</sup> is 100 or greater.

- 12. (original) The polymerizable system of claim 1, wherein the polymerizable system retains at least 85% or greater overlap shear strength after an extended open time.
- 13. (original) The polymerizable system of claim 12 wherein the extended open time is between about 7 minutes and 20 minutes.
- 14. (original) The polymerizable system of claim 1 further comprising a core-shell polymer.
- 15. (original) The polymerizable system of claim 1 further comprising a reactive diluent.
- 16. (withdrawn) A polymerizable system comprising
  - (a) a first part comprising an organoborane; and
  - (b) a second part comprising a polymerizable monomer;

wherein at least one of the first part or the second part further comprises a work-life extending agent according to the general formula:

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$$\begin{array}{c|c}
 & O \\
 & Z^{1} - R^{42} \\
 & Z^{2} - R^{43}
\end{array}$$

wherein  $R^{40}$  is  $CH_2$ = or alkenyl,  $Z^1$  and  $Z^2$  are independently O, N-  $R^{41}$  or S, and  $R^{41}$ ,  $R^{42}$  and  $R^{43}$  are independently H, alkyl, aryl or cycloalkyl,

provided that when  $Z^1$  and  $Z^2$  are O,  $R^{42}$  and  $R^{43}$  are independently alkyl, aryl or cycloalkyl.

- 17. (withdrawn) The polymerizable system of claim 16, wherein the work-life extending agent is included in the second part.
- 18. (withdrawn) The polymerizable system of claim 16 wherein the organoboranc is complexed with an aminc.
- 19. (withdrawn) The polymerizable system of claim 16, wherein the work-life extending agent is itaconic di(butyl) ester, and the itaconic di(butyl) ester is included in the second part.
- 20. (withdrawn) The polymerizable system of claim 16, wherein the organoborane is complexed with an amine and the second part further comprises a decomplexer.
- 21. (withdrawn) The polymerizable system of claim 16, wherein the first part and the second part are combined in a whole number ratio of about 1:10 to about 1:1.

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- 22. (withdrawn) A polymerizable system comprising:
  - (a) an organoborane;
  - at least one polymerizable monomer; and (b)
  - about 8 weight percent itaconic di(butyl) ester. (c)
- (withdrawn) A method of increasing the work-life of a polymerizable system comprising 23. an organoborane and a polymerizable monomer, the method comprising adding itaconic acid, itaconic acid derivatives, or a combination thereof in an amount sufficient to provide an initial concentration of the itaconic acid, one of itaconic acid derivatives, or a combination thereof of at least 2.5 weight percent of the polymerizable system.

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- (withdrawn) A polymerizable system comprising: 24.
  - (a) an organoborane;
  - a complexing agent comprising a material selected from amines, amidines, **(b)** hydroxides, alkoxides, and combinations thereof;
    - (c) at least one polymerizable monomer; and
    - a work-life extending agent according to the general formula: (d)

$$R^{40}$$
 $Z^{1}-R^{42}$ 
 $Z^{2}-R^{43}$ 

wherein  $R^{40}$  is  $CH_2$ = or alkenyl,  $R^{42}$  is H or alkyl,  $R^{43}$  is H, and  $Z^1$  and  $Z^2$  are O and the ratio of amine-, amidine-, hydroxide- or alkoxide-reactive groups in the work-life extending agent to amine, amidine, hydroxide or alkoxide groups in the complexing agent(s) is over 3.0:1.0.

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25. (withdrawn) A polymerizable system comprising:

- (a) an organoborane;
- (b) at least one polymerizable monomer; and
- (c) a work-life extending agent according to the general formula:

wherein  $R^{44}$  is  $CH_2$ = or alkenyl and X is S or N- $R^{50}$ , where  $R^{50}$  is hydrogen, alkyl, aryl or cycloalkyl.

26. (withdrawn) A polymerizable system comprising:

- (a) an organoborane;
- (b) a complexing agent comprising a material selected from amines, amidines, hydroxides, alkoxides, and combinations thereof;
  - (c) at least one polymerizable monomer; and
  - (e) a work-life extending agent according to the general formula:

wherein R<sup>44</sup> is CH<sub>2</sub>= or alkenyl and X is O and ratio of anhydride groups in the work-life extending agent to amine, amidine, hydroxide or alkoxide groups in the complexing agent(s) is over 3.0:1.0.